

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	443	((("20010017335") or ("20010025477") or ("20010038082") or ("20020043456") or ("20020046622") or ("20020073691") or ("20020092299") or ("20020113499") or ("20020118090") or ("20020130284") or ("20020136548") or ("20020142119") or ("20020174715") or ("20020185932") or ("20030011283") or ("20030019210") or ("20030053912") or ("20030065250") or ("20030097080") or ("20030162048") or ("20030177974") or ("20030199818") or ("20040020200") or ("20040031301") or ("20040077260") or ("20040108479") or ("20040112049") or ("20040129315") or ("20040154283") or ("20040191556") or ("20040197519") or ("20040200218") or ("20040201444") or ("20040204676") or ("20040211177") or ("20040227427") or ("20040252005") or ("20040256920") or ("20040261411") or ("20040261688") or ("20050000574") or ("20050001367") or ("20050005705") or ("20050006009") or ("20050023086") or ("20050041931") or ("20050091975") or ("20050099261") or ("20050103008") or ("20050150223") or ("20050160858") or ("20050173661") or ("20050178120") or	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/07/29 09:31

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PN.

S2	9	((DAVID) near2 (GRUMMON)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/09/02 10:49
S3	156070	((204/192.14,192.15) or (427/130,331)).CCLS. or ("264").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/02 10:53
S4	2230	(204/192.14,192.15).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/02 10:53
S5	2237	(427/130,331).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/02 10:54
S6	151755	("264").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/02 10:54
S7	1402	(251/11).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/02 10:54
S8	1	(S3 or S7) and (polymer\$2 or polyimide or apical or kapton or kaptrex or pseudothermoplastic) and ((shape memory alloy or smart alloy or memory metal or muscle wire or TiNiPd or TiNiAu or TiNiZr ro TiNiHf or TiNiPt) and (photo resist mask or photoresist mask) and (conductor or Cu or Au or Ag or Ni or Cr)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/02 11:34
S9	156070	((204/192.14,192.15) or (427/130,331)).CCLS. or ("264").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/02 11:43
S10	1402	(251/11).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/02 11:43
S14	1	(S9 or S10) and (polymer\$2 or polyimide or apical or kapton or kaptrex or pseudothermoplastic) and ((shape memory alloy or smart alloy or memory metal or muscle wire) and (TiNiPd or TiNiAu or TiNiZr ro TiNiHf or TiNiPt))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/02 11:45
S15	1	(S9 or S10) and (polymer\$2 or polyimide or apical or kapton or kaptrex or pseudothermoplastic) and ((shape memory alloy or smart alloy or memory metal or muscle wire) and (TiNiPd or TiNiAu or TiNiZr ro TiNiHf or TiNiPt))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/02 11:45

S16	52	(S9 or S10) and (polymer\$2 or polyimide or apical or kapton or kaptrex or pseudothermoplastic) and (shape memory alloy or smart alloy or memory metal or muscle wire or TiNiPd or TiNiAu or TiNiZr or TiNiHf or TiNiPt) and (conductor or Cu or Au or Ag or Ni or Cr)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/02 11:46
S17	1	("2003/0181853").URPN.	USPAT	ADJ	ON	2008/09/02 11:51
S19	2	"9639547"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/02 13:39
S21	4	("4864824") or ("5061914") or ("5825275") or ("4753689").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/02 13:41
S22	29	("4639060"   "4864824"   "5061914"   "5226979"   "5309717"   "5344117").PN. OR ("5825275").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/09/02 14:02
S23	20	("20020113499"   "20040252164"   "5588295"   "5613861"   "5619177"   "5825275"   "5914218"   "5921083"   "6236300"   "6264477"   "6272857"   "6343849"   "6392524"   "6481821"   "6499831"   "6557977"   "6689486"   "6734425"   "7005195"   "7104056").PN. OR ("7372348").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/09/02 14:03
S24	11	("4864824"   "5061914"   "5080455"   "5325880"   "5836066"   "6001195"   "6358380").PN. OR ("6689486").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/09/02 17:11
S25	44	("3753792"   "4411711"   "4423401"   "4544988"   "4551974"   "4570139"   "4585209"   "4797649"   "4806815"   "4823105"   "4864824"   "4887430"   "5061914"   "5258591"   "5325880"   "5367136"   "5402099"   "5405337"   "5410290"   "5440193"   "5535815"   "5619177"   "5656986"   "5669977"   "5684448"   "5763979"   "5769159"   "5825275"   "5870007"   "5977858").PN. OR ("6236300").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/09/02 17:21

S26	18	("4411711"   "4518444"   "4637962"   "4899543"   "4935068"   "5624508"   "5641364"   "5686003").PN. OR ("5836066").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/09/02 17:30
S27	73	("0155667"   "1438974"   "2230537"   "2269374"   "2901623"   "3295042"   "3544201"   "3736647"   "4142144").PN. OR ("4585209").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/09/02 17:32
S28	156070	((204/192.14,192.15) or (427/130,331)).CCLS. or ("264").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/03 12:18
S29	1402	(251/11).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/03 12:18
S30	0	(S28 or S29) actuator and (polymer\$2 or polyimide or apical or kapton or kaptrex or pseudothermoplastic) and (sma or shape memory alloy or smart alloy or memory metal or muscle wire) same (TiNiPd or TiNiAu or TiNiZr ro TiNiHf or TiNiPt)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 12:18
S31	0	(S28 or S29) actuator and (polymer\$2 or polyimide or apical or kapton or kaptrex or pseudothermoplastic) and (sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (TiNiPd or TiNiAu or TiNiZr ro TiNiHf or TiNiPt)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 12:19
S32	0	(S28 or S29) actuator and (polymer\$2 or polyimide or apical or kapton or kaptrex or pseudothermoplastic) and (sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (Nitinol or TiNi\$2 or TiNiPd or TiNiAu or TiNiZr ro TiNiHf or TiNiPt)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 12:19
S33	1761	actuator and (polymer\$2 or polyimide or apical or kapton or kaptrex or pseudothermoplastic) and (sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (Nitinol or TiNi\$2 or TiNiPd or TiNiAu or TiNiZr ro TiNiHf or TiNiPt)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 12:20

S34	1457	actuator and (polymer\$2 or polyimide or apical or kapton or kaptrex or pseudothermoplastic) and (sma or shape memory alloy or smart alloy or memory metal or muscle wire) same (Nitinol or TiNi\$2 or TiNiPd or TiNiAu or TiNiZr ro TiNiHf or TiNiPt)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 12:20
S35	627	actuator same (polymer\$2 or polyimide or apical or kapton or kaptrex or pseudothermoplastic) same (sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (Nitinol or TiNi\$2 or TiNiPd or TiNiAu or TiNiZr ro TiNiHf or TiNiPt)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 12:20
S36	564	actuator same (polymer\$2 or polyimide or apical or kapton or kaptrex or pseudothermoplastic) same (sma or shape memory alloy or smart alloy or memory metal or muscle wire) same (Nitinol or TiNi\$2 or TiNiPd or TiNiAu or TiNiZr ro TiNiHf or TiNiPt)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 12:20
S37	0	actuator and (polymer\$2 or polyimide or apical or kapton or kaptrex or pseudothermoplastic) and sputter depos\$3 near5 (sma or shape memory alloy or smart alloy or memory metal or muscle wire) near5 (Nitinol or TiNi\$2 or TiNiPd or TiNiAu or TiNiZr ro TiNiHf or TiNiPt) and strain and (photolithographic or photo resist or photoresist)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 12:25
S38	1	actuator and (polymer\$2 or polyimide or apical or kapton or kaptrex or pseudothermoplastic) and sputter depos\$3 near5 (sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (Nitinol or TiNi\$2 or TiNiPd or TiNiAu or TiNiZr ro TiNiHf or TiNiPt) and strain and (photolithographic or photo resist or photoresist)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 12:25

S39	1	actuator and (polymer\$2 or polyimide or apical or kapton or kaptrex or pseudothermoplastic) and sputter depos\$3 same (sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (Nitinol or TiNi\$2 or TiNiPd or TiNiAu or TiNiZr or TiNiHf or TiNiPt) and strain and (photolithographic or photo resist or photoresist)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 12:25
S40	4	actuator and (polymer\$2 or polyimide or apical or kapton or kaptrex or pseudothermoplastic) and sputter depos\$3 and (sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (Nitinol or TiNi\$2 or TiNiPd or TiNiAu or TiNiZr or TiNiHf or TiNiPt) and strain and (photolithographic or photo resist or photoresist)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 12:25
S41	156070	((204/192.14,192.15) or (427/130,331)).CCLS. or ("264").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/03 16:18
S42	1402	(251/11).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/03 16:18
S43	2	(S41 or S42) and (sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (stress or strain) near5 (axial or biaxial)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 16:18
S44	240	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (stress or strain) near5 (axial or biaxial)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 16:18
S45	0	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (stress or strain) near5 (axial or biaxial) same die and martensitic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 16:21
S46	5	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (stress or strain) near5 (axial or biaxial) same die	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 16:21
S47	1408	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) near5 (stress or strain)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 16:30

S48	622	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) near5 (strain)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 16:33
S49	7	("5061914"   "5108523"   "5114504"   "6165413").PN. OR ("6358380").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/09/03 16:42
S50	41	("3174851"   "3660082"   "3832243"   "4019899"   "4144057"   "4304613"   "4310354"   "4337090"   "4412872"   "4505767"   "4565589"   "4740253"   "4759906"   "4808225"   "4865663"   "4874577"   "4881981"   "4894100"   "4950340").PN. OR ("5114504").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/09/03 16:47
S51	44	("3558369"   "3700434"   "4144057"   "4283233"   "4304613"   "4386971"   "4404025"   "4405387"   "4411711"   "4412872"   "4416706"   "4435229"   "4484955"   "4502896"   "4518444"   "4533411"   "4631094"   "4637962"   "4740253"   "4770725"   "4780154"   "4808246"   "4878954"   "4881981"   "4894100"   "4935068"   "4943326"   "5032195"   "5066341"   "5173131"   "5226979"   "5419788").PN. OR ("6149742").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/09/03 16:50
S52	639	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) near5 (train or strain)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 16:53
S53	2	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) near5 (train or strain) near (axial or biaxial)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 16:53
S54	1	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) near5 degas\$4 near vacuum	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 16:54
S55	2	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) near5 degas\$4 near5 vacuum	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 16:54
S56	3	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) near5 degas\$4 same vacuum	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 16:55

S57	7434	(polymer\$2 or polyimide or apical or kapton or kaptrex or pseudothermoplastic) and (degas\$4 near5 vacuum)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 16:56
S58	6398	(polymer\$2 or polyimide or apical or kapton or kaptrex or pseudothermoplastic) and (degas\$4 near3 vacuum)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 16:56
S59	5341	(polymer\$2 or polyimide or apical or kapton or kaptrex or pseudothermoplastic) and (degas\$4 near2 vacuum)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 16:57
S60	2739	(polymer\$2 or polyimide or apical or kapton or kaptrex or pseudothermoplastic) and (degas\$4 near vacuum)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 16:57
S61	29	(polymer\$2 or polyimide or apical or kapton or kaptrex or pseudothermoplastic) and (degas\$4 near vacuum near5 (clean\$3 or purif\$3 or impurit\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 17:15
S62	7	(polymer\$2 or polyimide or apical or kapton or kaptrex or pseudothermoplastic) and (degas\$4 near vacuum near5 (clean\$3 or purif\$3 or impurit\$3)) and deposit\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 17:16
S63	20	(polymer\$2 or polyimide or apical or kapton or kaptrex or pseudothermoplastic) and (degas\$4 near3 vacuum near5 (clean\$3 or purif\$3 or impurit\$3)) and deposit\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 17:18
S64	311	(polymer\$2 or polyimide or apical or kapton or kaptrex or pseudothermoplastic) and (degas\$4 near5 (clean\$3 or purif\$3 or impurit\$3)) and deposit\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 17:19
S65	645	(substrate or polymer\$2) and (degas\$4 near5 (clean\$3 or purif\$3 or impurit\$3)) and deposit\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 17:26
S66	62	(substrate or polymer\$2) and (degas\$4 near5 (clean\$3 or purif\$3 or impurit\$3)) and deposit\$3 near sputter	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 17:26
S67	6	("5,061,914") or ("5,825,275") or ("4,864,824") or ("6,236,300") or ("5,325,880") or ("4,538,642").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/03 17:37

S68	242	(S41 or S42) and (sma or shape memory alloy or smart alloy or memory metal or muscle wire) and cut	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 17:48
S69	3	(S41 or S42) and (sma or shape memory alloy or smart alloy or memory metal or muscle wire) and cut\$3 near5 (train or strain or stress or torsion)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 17:49
S70	18	actuator and (sma or shape memory alloy or smart alloy or memory metal or muscle wire) and cut\$3 near5 (train or strain or stress or torsion)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 17:50
S71	4	("4637962"   "5700337"   "6216937").PN. OR ("6773535").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/09/03 17:53
S72	57	(actuator or substrate) and (sma or shape memory alloy or smart alloy or memory metal or muscle wire) and cut\$3 near5 (train or strain or stress or torsion)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 17:56
S73	38	actuator and (sma or shape memory alloy or smart alloy or memory metal or muscle wire) and cut\$3 near5 (train or strain or stress or torsion or stretch\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 18:09
S74	77	(actuator or film) and (sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (cut\$3 or slice) near5 (train or strain or stress or torsion or stretch\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 18:18
S75	235	(actuator or film) and (sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (cut\$3 or slice) near5 (train or strain or stress or torsion or stretch\$3 or pull\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 18:18
S76	171	(actuator) and (sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (cut\$3 or slice) near5 (train or strain or stress or torsion or stretch\$3 or pull\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 18:50
S77	579	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (heat\$3 and cool\$3) near5 (condition or train or strain or stress or torsion or stretch\$3 or pull\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 18:58

S78	331	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (heat\$3 near5 cool\$3) near5 (condition or train or strain or stress or torsion or stretch\$3 or pull\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 19:27
S79	53	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (heat\$3 near5 cool\$3) near5 (condition or train or strain or stress or torsion or stretch\$3 or pull\$3) and (die or jig)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 19:27
S80	9	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (heat\$3 near5 cool\$3) near5 (condition or train or strain or stress or torsion or stretch\$3 or pull\$3) same (die or jig)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 19:29
S81	12	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (heat\$3 and cool\$3) near5 (condition or train or strain or stress or torsion or stretch\$3 or pull\$3) same (die or jig)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/03 19:31
S83	6	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and sputter near5 (conductor or conductance or conducting)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 10:56
S84	106	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and sputter near5 (conductor or conductance or metal or Cu or copper)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 11:06
S85	27	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and sputter near5 (conductor or conductance or Cu or copper)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 11:09
S86	55	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and sputter near10 (conductor or conductance or conductive Cu or copper of al or aluminum)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 11:17
S87	4	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and sputter near10 (resist\$4 or conduct\$3) near5 (Cu or copper or Au or gold or Silver or Ag or Ni or Nickel or Cr or Chromium)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 11:35

S88	12	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and sputter near10 (resist\$4 or conduct\$3 or heat\$3 or electrical) near5 (Cu or copper or Au or gold or Silver or Ag or Ni or Nickel or Cr or Chromium)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 11:37
S89	1310	sputter near10 (resist\$4 or conduct\$3 or heat\$3 or electrical) near5 (Cu or copper or Au or gold or Silver or Ag or Ni or Nickel or Cr or Chromium)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 11:40
S90	48	sputter near10 (resist\$4 or conduct\$3 or heat\$3 or electrical) near5 (Cu or copper or Au or gold or Silver or Ag or Ni or Nickel or Cr or Chromium) and plating layer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 11:44
S91	214	sputter near10 (resist\$4 or conduct\$3 or heat\$3 or electrical) near5 (Cu or copper or Au or gold or Silver or Ag or Ni or Nickel or Cr or Chromium) and plat\$3 near3 layer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 11:54
S92	0	sputter near10 (resist\$4 or conduct\$3 or heat\$3 or electrical) near5 (Cu or copper or Au or gold or Silver or Ag or Ni or Nickel or Cr or Chromium) and plat\$3 near3 assist near3 layer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 12:08
S93	197	sputter near10 (resist\$4 or conduct\$3 or heat\$3 or electrical or wir\$3) near5 (Cu or copper or Au or gold or Silver or Ag or Ni or Nickel or Cr or Chromium) and plat\$3 near2 layer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 12:10
S94	196	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (post or second\$4 or repeat\$3) near anneal\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 16:11
S95	0	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (post or second\$4 or repeat\$3) near anneal\$4 near5 cut	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 16:12
S96	1	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (post or second\$4 or repeat\$3) near anneal\$4 same cut	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 16:12

S97	2	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (post or second\$4 or repeat\$3) near anneal\$4 same cut\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 16:15
S98	2	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (post or second\$4 or repeat\$3) near (anneal\$4 or (heat\$3 near cool \$3)) same cut\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 17:01
S99	1	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and post near anneal\$4 same cut\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 17:17
S100	14	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and post near anneal\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 17:17
S101	0	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (heat\$3 and cool\$3) near5 (condition or train or strain or stress or torsion or stretch\$3 or pull\$3) same (force or pressure) same ion near irradiation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 18:27
S102	0	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (heat\$3 and cool\$3) near5 (condition or train or strain or stress or torsion or stretch\$3 or pull\$3) same (force or pressure) and ion near irradiation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 18:27
S103	0	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (heat\$3 and cool\$3) near5 (condition or train or strain or stress or torsion or stretch\$3 or pull\$3) same (force or pressure) and irradiation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 18:45
S104	62	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (heat\$3 and cool\$3) near5 (condition or train or strain or stress or torsion or stretch\$3 or pull\$3 or shap\$3 or force or pressure) same (die or jig or apparatus or device or clamp) and irradiation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 18:47

S105	1154	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (condition or train or strain or stress or torsion or stretch\$3 or pull\$3 or shap\$3 or force or pressure) same (die or jig or apparatus or device or clamp) and irradiation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 18:50
S106	13	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (condition or train or strain or stress or torsion or stretch\$3 or pull\$3 or shap\$3) same (force or pressure) same (die or jig or apparatus or device or clamp) and ion near irradiation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 18:50
S107	8	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (train or strain or stress or torsion or stretch\$3 or pull\$3 or shap\$3) same (force or pressure) same (die or jig or apparatus or device or clamp) and ion near irradiation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 18:52
S108	17	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (train or strain or stress or torsion or stretch\$3 or pull\$3 or shap\$3) same (die or jig or apparatus or device or clamp) and ion near irradiation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 18:53
S109	5	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and (train or strain or stress or torsion or stretch\$3 or pull\$3 or shap\$3) same (die or jig or apparatus or clamp) and ion near irradiation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 18:53
S110	10	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) same ion near irradiation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 18:55
S111	21	(sma or shape memory alloy or smart alloy or memory metal or muscle wire) and ion near irradiation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 19:04
S112	2	((Nickel or Ni) near (Ti or titanium)) or nitinol or tinel) same ion near irradiation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 19:10

S113	2	((Nickel or Ni) near (Ti or titanium)) or nitinol or tinel or Ti-Ni or Ni-Ti) same ion near irradiation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 19:13
S114	47	((Nickel or Ni) near (Ti or titanium)) or nitinol or tinel or Ti-Ni or Ni-Ti) and ion near irradiation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 19:14
S115	10	(nitinol or tinel or Ti-Ni or Ni-Ti) and ion near irradiation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 19:15
S116	11	(nitinol or tinel or Ti-Ni or Ni-Ti or NiTi or TiNi) and ion near irradiation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 19:15
S117	1215	(nitinol or tinel or Ti-Ni or Ni-Ti or NiTi or TiNi) and irradiation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 19:17
S118	177	(nitinol or tinel or Ti-Ni or Ni-Ti or NiTi or TiNi) and (film or substrate) same irradiation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 19:17
S119	55	(nitinol or tinel or Ti-Ni or Ni-Ti or NiTi or TiNi) and (film or substrate) near5 irradiation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 19:18
S120	34823	(film or substrate) near5 irradiation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 19:30
S121	1257	(film or substrate) near5 ion near irradiation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/05 19:30
S122	518	(heavy or Ar or Argon or Kr or Krypton) near irradiation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 11:18
S124	363	(film or substrate or sma or shape memory alloy or smart alloy or memory metal or muscle wire) near15 (heavy or Ar or Argon or Kr or Krypton) near irradiation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 11:19
S125	247	(film or substrate or sma or shape memory alloy or smart alloy or memory metal or muscle wire) same (heavy or Ar or Argon or Kr or Krypton) near irradiation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 11:19

S126	134	(film or substrate or sma or shape memory alloy or smart alloy or memory metal or muscle wire) near5 (heavy or Ar or Argon or Kr or Krypton) near irradiation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 11:19
S127	145	(film or substrate or sma or shape memory alloy or smart alloy or memory metal or muscle wire) near5 (heavy or Ar or Argon or Kr or Krypton) near (irradiation or (atomic near peening))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 11:38
S128	0	(heavy or Ar or Argon or Kr or Krypton) near (irradiation or (atomic near peening)) same (austenit\$3 or martensit\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 11:41
S129	0	(heavy or Ar or Argon or Kr or Krypton) near (irradiation or (atomic near peening)) near15 (austenit\$3 or martensit\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 11:42
S130	37	(heavy or Ar or Argon or Kr or Krypton) near (irradiation or (atomic near peening)) near15 (austenit\$3 or martensit\$3 or crystal\$4 or structure or properties or damage)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 11:42
S131	112	(heavy or Ar or Argon or Kr or Krypton) near (irradiation or (atomic near peening)) same (austenit\$3 or martensit\$3 or crystal\$4 or structure or properties or damage)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 11:43
S132	39	(heavy or Ar or Argon or Kr or Krypton) near (irradiation) near15 (austenit\$3 or martensit\$3 or crystal\$4 or structure or damag\$3 or peen\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 11:50
S133	0	(heavy or Ar or Argon or Kr or Krypton) near (irradiation or (atomic near peening)) same (austenit\$3 or martensit\$3 or (crystal\$4 near2 damag\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 12:04
S134	561	(irradiation or (atomic near peening)) same (austenit\$3 or martensit\$3 or (crystal\$4 near2 damag\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 12:25
S135	1	(irradiation or (atomic near peening)) same (austenit\$3 or martensit\$3) same (crystal\$4 near2 damag\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 12:25

S136	53	(sma or shape memory alloy or TiNi or NiTi or Nitinol or Tinol) same (irradiation or peening) same (austenit\$3 or martensit \$3 or (crystal\$4 near2 damage\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 12:30
S137	8	(sma or shape memory alloy or TiNi or NiTi or Nitinol or Tinol) same (ion near5 (irradiation or peening)) same (austenit\$3 or martensit\$3 or (crystal\$4 near2 damage\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 12:33
S138	1	actuator and (film or substrate) same blister valve	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 12:36
S139	2	actuator and (film or substrate) and blister valve	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 12:37
S140	4	(film or substrate) and blister valve	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 12:37
S141	2	actuator and blister valve	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 12:38
S142	0	(sma or smart metal alloy or TiNi or NiTi or nitinol or tinol) same blister valve	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 12:39
S143	2	(sma or smart metal alloy or TiNi or NiTi or nitinol or tinol) and blister valve	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 12:39
S144	2	thin near film and blister valve	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 12:39
S145	12	blister valve	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 12:46
S146	28	blister (valve or actuator)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 13:00
S147	2184	((251/11) or (137/341)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/08 13:30
S148	604	S147 and (bistable or bi-stable or flexible or diaphragm)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 13:30

S149	50	S147 and (two near5 (bistable or bi-stable or flexible or diaphragm))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 13:31
S150	82	S147 and (two or double near5 (bistable or bi-stable)) and (sma or shape memory alloy or smart metal or memory metal or muscle wire or TiNi or NiTi or nitinol or tinol)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 13:45
S151	82	S147 and (two or double near5 (bistable or bi-stable)) and (sma or shape memory alloy or smart metal or memory metal or muscle wire or TiNi or NiTi or nitinol or tinol) and (valve or actuator or fluid control)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 13:46
S152	4	S147 and ((two or double) near5 (bistable or bi-stable)) and (sma or shape memory alloy or smart metal or memory metal or muscle wire or TiNi or NiTi or nitinol or tinol) and (valve or actuator or fluid control)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 14:01
S153	76	((two or double) near5 (bistable or bi-stable)) and (sma or shape memory alloy or smart metal or memory metal or muscle wire or TiNi or NiTi or nitinol or tinol) and (valve or actuator or fluid control)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 14:03
S154	3733	(ion or irradiation or (atomic near peening)) same (austenit \$3 or martensit\$3 or (crystal\$4 near2 damag\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 14:50
S155	19	(ion near irradiation or (atomic near peening)) same (austenit \$3 or martensit\$3 or (crystal\$4 near2 damag\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 14:51
S156	11	(ion near irradiation or (atomic near peening)) same (austenit \$3 or martensit\$3 or (crystal\$4 near2 damag\$3)) and (Ar or argon or Kr or Krypton or heavy)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/08 14:56
S157	1	("20010021290").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/08 17:16
S158	1	("20020112788").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/08 17:17

S159	65	(US-20070034818-\$ or US-20050159808-\$ or US-20040191556-\$ or US-20030162048-\$ or US-20030127318-\$ or US-20020013555-\$ or US-20020113499-\$ or US-20050005705-\$ or US-20050147753-\$ or US-20030062254-\$ or US-20030224084-\$ or US-20020089833-\$ or US-20030133225-\$ or US-20030082925-\$ or US-20030020502-\$ or US-20020177891-\$ or US-20030146432-\$ or US-20030214857-\$ or US-20030081537-\$ or US-20040053079-\$ or US-20040074065-\$ or US-20010021290-\$).did. or (US-6689486-\$ or US-6565526-\$ or US-6533905-\$ or US-6494433-\$ or US-5825275-\$ or US-5061914-\$ or US-4753689-\$ or US-4864824-\$ or US-7104056-\$ or US-6272857-\$ or US-6264477-\$ or US-6762669-\$ or US-6364453-\$ or US-6342826-\$ or US-6294977-\$ or US-6078244-\$ or US-6018286-\$ or US-7005195-\$ or US-6236300-\$ or US-5619177-\$ or US-5613861-\$ or US-5588295-\$ or US-7122872-\$ or US-6933004-\$ or US-6358380-\$ or US-6001195-\$).did. or (US-5836066-\$ or US-5325880-\$ or US-5080455-\$ or US-6882264-\$ or US-4585209-\$ or US-6592724-\$ or US-6165413-\$ or US-5114504-\$ or US-5108523-\$ or US-6260818-\$ or US-6220550-\$ or US-6149742-\$ or US-4538642-\$ or US-6773535-\$ or US-5700337-\$ or US-6655011-\$).did. or (WO-9639547-\$).did.	US-PGPUB; USPAT; EPO	ADJ	ON	2008/09/11 20:09
S160	11	S159 and NiTi\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/11 20:09
S161	122939	TiNi\$2 or TiNiPd or TiNiAu or TiNiZr ro TiNiHf or TiNiPt	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/11 20:11

S162	122939	TiNi\$2 or TiNiPd or TiNiAu or TiNiZr or TiNiHf or TiNiPt	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/11 20:11
S163	107	TiNiPd or TiNiAu or TiNiZr or TiNiHf or TiNiPt	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/11 20:12
S164	44	(TiNiPd or TiNiAu or TiNiZr or TiNiHf or TiNiPt) and @pd<="20030415"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/09/11 20:12

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